



ALEXIS HECFEUILLE

Web developer

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SKILLS



EDUCATION

UNIVERSITY OF LILLE

Master of Science, Computer Science | 2019 – 2021

Courses: Algorithms and Complexity, Operating Systems, Object-oriented programming, Multi-agent systems, Computer Vision, 3D Graphics Programming (OpenGL / C++ / WebGL / JS), Virtual Reality (Unity), Human-computer interaction, Embedded systems (FPGA / VHDL), Distributed computing.

UNIVERSITY OF LILLE

Bachelor of Science, Computer Science | 2016 – 2019

Courses: Finite-state machines and languages, Object-oriented design, Systems programming, Operations Research, Relational databases, Functional programming, Networking, Logic and proofs, Linear algebra, Algorithms, Cryptography, Web technologies, Data structures, Statistics and Probability, Discrete mathematics, Mathematical analysis.

WORK EXPERIENCE

HOLOGAME

Technology startup building and selling multiplayer free-roam VR arenas to location-based entertainment

Technical co-founder | Tourcoing, France | Sep 2018 – Oct 2021

- Built the free-roam multiplayer VR shooter for standalone VR headsets using Unity / C#
 - Optimized to run smoothly with up to 8 players and 40+ NPCs simultaneously
 - Playable on a physical area of 300+ m² and a virtual area of 1+ km²
- Created the management application in .NET/C# used by our customers to launch and monitor the game sessions
- Developed the authentication web application for end users with React and TailwindCSS
 - Allows end-user authentication on tablets without operator intervention, reducing game preparation time
 - Reduces logistical burden by automating player-headset association and tracking the setup state of each player
- Created an internal web application to analyze business and operational data with Next.js and MySQL
- Implemented a REST API with PHP/CodeIgniter to enable communication between the various elements of the solution (VR headsets, management application, authentication, etc.)
- Met with entertainment entrepreneurs to give technical demonstrations of the solution in order to sell it
- Presented the solution at various events to get feedback from end-users and to meet potential customers

LANGUAGES

French
native

English
fluent

Spanish
notions